



Professor Marios Theofanous

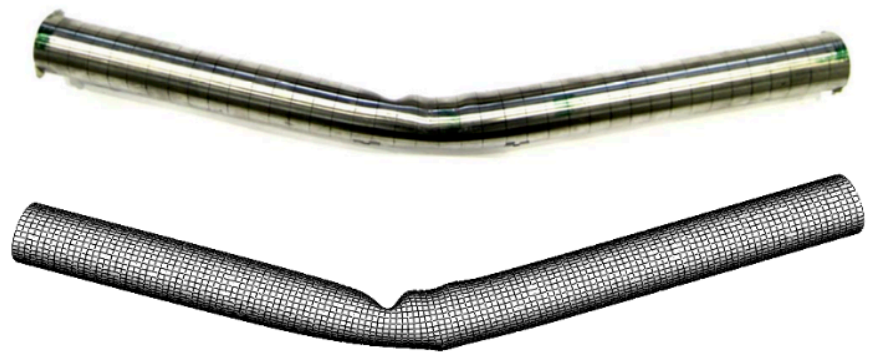


Fig. 9: Experimental and numerical failure modes for bending about the minor axis (OHS 86×58×3-MI)

From: Theofanous, M., Chan, T.M. and Gardner, L. (2009). Flexural behaviour of stainless steel oval hollow sections. *Thin-Walled Structures* 47(6-7), 776-787.

See:

https://www.researchgate.net/profile/Marios_Theofanous

<https://scholar.google.co.uk/citations?user=hi9fC1sAAAAJ&hl=en>

<https://www.birmingham.ac.uk/schools/engineering/civil-engineering/people/profile.aspx?ReferenceId=88560>

Department of Civil Engineering
University of Birmingham, Edgbaston, Birmingham, UK

Education:

PhD in Structural Engineering, Imperial College London, 2010

MSc, DIC in Structural Steel Design and Business Management (with distinction), Imperial College London, 2006

Dipl. Ing. (8.32/10), Aristotle University of Thessaloniki, 2005.

Research Interests:

Experimental and numerical research of structural steel, stainless steel and high strength steel structures at cross-sectional, member and system level. Other research interests include FRP-strengthened concrete structures, structural fire engineering and semi-rigid connections.

Selected Publications:

Marina Bock, Marios Theofanous, Samir Dirar and Paul Raybone, “Assessment of web crippling design provisions for application to proprietary soldier beams”, *Structures*, Vol. 20, pp 147-156, August 2019

H.X. Yuan, X.W. Chen, M. Theofanous, Y.W. Wu, T.Y. Cao and X.X. Du, “Shear behaviour and design of diagonally stiffened stainless steel plate girders”, *Journal of Constructional Steel Research*, Vol. 153, pp 588-602, February 2019

Wang, J., Afshan, S., Gkantou, M., Theofanous, M., Wang, J. and Gardner, L. (2017), "Flexural buckling of hot-finished high-strength steel SHS and RHS columns", *J. Struct. Eng.*, 143(6), 04017028.

Gkantou, M., Theofanous, M., Wang, J., Baniotopoulos, C. and Gardner, L. (2017), "Behaviour and design of high-strength steel cross-sections under combined loading", *Proceedings of the Institution of Civil Engineers-Structures and Buildings*, 170(11), 841-854

J. Wang, S. Afshan, N. Schillo, M. Theofanous, M. Feldmann and L. Gardner, "Material properties and compressive local buckling response of high-strength steel square and rectangular hollow sections", *Engineering Structures*, Vol. 130, pp 297-315, January 2017

M. Theofanous, T. Profsert, M. Knobloch and L. Gardner, "The continuous strength method for steel cross-section design at elevated temperatures", *Thin-Walled Structures*, Vol. 98, Part A, pp 94-102, January 2016

J. Wang, S. Afshan, M. Gkantou, M. Theofanous, C. Baniotopoulos and L. Gardner, "Flexural behaviour of hot-finished high strength steel square and rectangular hollow sections", *Journal of Constructional Steel Research*, Vol. 121, pp 97-109, June 2016

Leroy Gardner, Yidu Bu and Marios Theofanous, "Laser-welded stainless steel I-sections: Residual stress measurements and column buckling tests", *Engineering Structures*, Vol. 127, pp 536-548, November 2016

M. Theofanous, A. Liew and L. Gardner, "Experimental study of stainless steel angles and channels in bending", *Structures*, Vol. 4, pp 80-90, November 2015

Xiushu Qu, Zhihua Chen, David A. Nethercot, Leroy Gardner and Marios Theofanous. (under review). Push out tests and bond strength of rectangular CFST columns. *Steel and Composite Structures*.

Theofanous, M., Saliba, N. Zhao, O. and Gardner, L. (2014). Ultimate response of stainless steel continuous beams. *Thin-Walled Structures* 83, 115-127.

Manos, G.C., Theofanous, M. and Katakalos K. (2014). Numerical simulation of the shear behaviour of reinforced concrete rectangular beam specimens with or without FRP-strip shear reinforcement. *Advances in Engineering Software* 67, 47-56.

Xiushu Qu, Zhihua Chen, David A. Nethercot, Leroy Gardner and Marios Theofanous (2013). Load-reversed push-out tests on rectangular CFST columns. *Journal of Constructional Steel Research* 81(2), 35-43.

Theofanous, M. and Gardner, L. (2012). Effect of element interaction and material non linearity on the ultimate capacity of stainless steel cross-sections. *Steel and Composite Structures* 12(1), 73-92.

Theofanous, M. and Gardner, L. (2010). Experimental and numerical studies of lean duplex stainless steel beams. *Journal of Constructional Steel Research* 66 (6), 816-825.

M. Ahmer Wadee, Stylianos Yiatros and Marios Theofanous (2010). Comparative studies of localized buckling in sandwich struts with different core bending models. *International Journal of Non-Linear Mechanics* 45 (2), 111-120.

Theofanous, M. and Gardner, L. (2009). Testing and numerical modelling of lean duplex stainless steel hollow section columns. *Engineering Structures*. 31 (12), 3047-3058.

Theofanous, M., Chan, T.M. and Gardner, L. (2009). Flexural behaviour of stainless steel oval hollow sections. *Thin-Walled Structures* 47(6-7), 776-787.

Theofanous, M., Chan, T.M. and Gardner, L. (2009). Structural response of stainless steel oval hollow section compression members. *Engineering Structures* 31(4), 922-934.

Gardner, L. and Theofanous, M. (2008). Discrete and continuous treatment of local buckling in stainless steel elements. *Journal of Constructional Steel Research* 64(11), 1207-1216.